

Time allowed: 3 Hrs

Computer Science (Part -I)

Marks: 75

Fresh / Reappear

Note: There are three sections of the paper, A, B & C. Attempt Section - A on the same paper and return it to the Superintendent within the given time. No marks will be awarded for cutting, erasing or over writing. Mobile phone etc. are not allowed in the examination hall.

Time: 20 Mins

Section "A"

Marks: 15

Q.1 Write the correct option i.e. A, B, C or D in the empty box provided opposite each part.

- i. Notebook computer is an example of B
 A. Microcomputer B. Mini computer C. Super computer D. Embedded computer
- ii. A software which controls a particular device is called A
 A. Utility software B. Device driver C. RAM D. Processor
- iii. Which of the following is not a pointing device? D
 A. Mouse B. Light pen C. Touch screen D. Keyboard
- iv. Which memory holds data and instructions for processing? A
 A. Main memory B. Direct memory C. Secondary memory D. Chip memory
- v. Which memory is the fastest memory? D
 A. RAM B. ROM C. Hard disk D. Cache
- vi. Which of the following device provides interface to a network? B
 A. PS/2 Port B. Modem C. Network adopter D. Parallel port
- vii. Which register is used for mathematical and logical operations? A
 A. Accumulator register B. Base register C. Counter register D. Data register
- viii. Common data transfer instruction(s) is / are A
 A. MOV B. LOAD C. STORE D. All of them
- ix. Which microprocessor architecture is designed to perform smaller number of instructions? B
 A. CISC B. RISC C. LIST D. Disk
- x. Which of the following provides high speed channel for attaching video cards to motherboard? A
 A. AGP B. FD cable C. SATA cable D. IDE cable
- xi. Which of the following is called firmware? D
 A. DOS B. Windows C. UNIX D. BIOS
- xii. Which of the following is called a DBMS? C
 A. MS Word B. MS Excel C. MS Access D. MS Powerpoint
- xiii. In ERD, oval symbol is used for C
 A. Entity B. Relationship C. Attribute D. Class
- xiv. Which layer of OSI model serves as user interface? B
 A. Physical layer B. Application layer C. Session layer D. Network layer
- xv. Television and radio transmission is an example of A
 A. Simplex B. Half duplex C. Full duplex D. Duplex

Section "B"

Marks: 36

- Q.2 Attempt any NINE parts. Each part carries equal marks.
- i. Write any four tasks performed by system software.
 - ii. What is the function of touchpad in a computer?
 - iii. Write a short note on smart card.
 - iv. Why we prefer LCD over CRT monitor?
 - v. What function are performed by physical layer of OSI model?
 - vi. How cache memory affects the processing speed of a computer?
 - vii. Write any four advantages of wireless communication system.
 - viii. Write a short note on router.
 - ix. What are the advantages and disadvantages of peer to peer network?
 - x. Write any four responsibilities of a database administrator.
 - xi. Define the following
 - a. Relation
 - b. Tuple
 - c. Attribute
 - d. SQL
 - xii. How application software helps a user?

Section "C"

Marks: 24

Note: Answer any THREE questions. Each question carries 8 marks.

- Q.3 What is meant by optical disk? Explain different types of optical disks.
- Q.4 What is an expansion card? Explain common types of expansion cards.
- Q.5 Computer OSI model and TGP/IP model with respect to similarities and differences.
- Q.6 Explain the following.
 - a. Data redundancy
 - b. Program data independence